



CONSTRUCTION EQUIPMENT

VOLVO EC350EL 314548 - DIESEL ENGINE



Sample No: VCP450522
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP450522	VCP441347	---	---
Sample Date	24 Jun 2024	01 Feb 2024	---	---
Machine Hours	1935	1088	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.3	---	---
Base Number (BN)	mg KOH/g	7.7	7.8	---	---
Oxidation (PA)	%	83	81	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	73	71	---	---
Sulfation (PA)	%	61	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.6	---	---
Silicon	ppm	6	8	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	2	<1	---	---



WEAR METALS

Iron	ppm	4	5	---	---
Copper	ppm	10	60	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	2	1	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	49	47	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1888	1639	---	---
Magnesium	ppm	639	549	---	---
Zinc	ppm	1416	1202	---	---
Phosphorus	ppm	1075	999	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	16	18	---	---

Depot: VOLVO0090
Unique No: 11098973
Signed: Jonathan Hester
Report Date: 26 Jun 2024



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GRAPHS

Iron (ppm)



Lead (ppm)



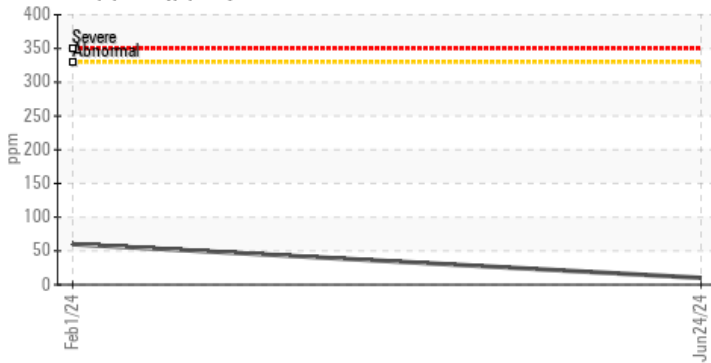
Aluminum (ppm)



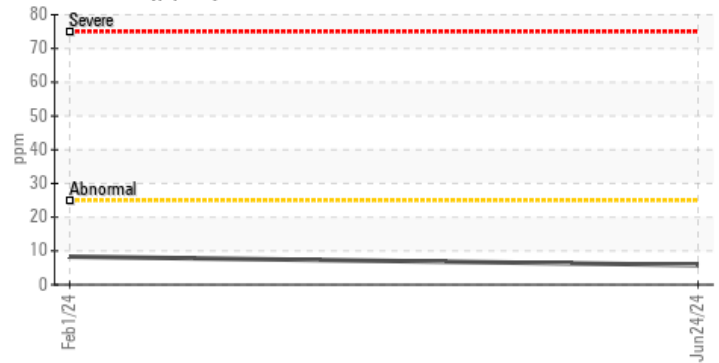
Chromium (ppm)



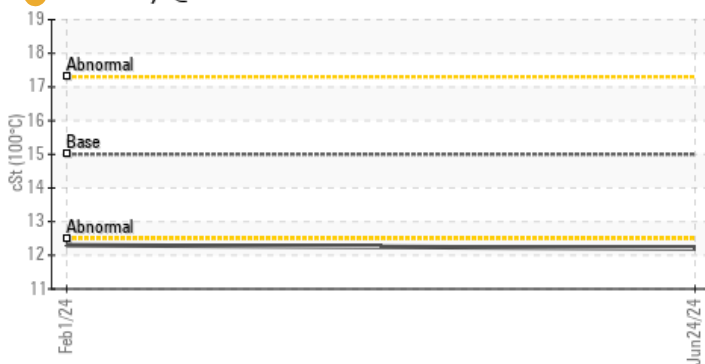
Copper (ppm)



Silicon (ppm)



● Viscosity @ 100°C



Base Number

